JUREK LORBER

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EDUCATION

University of Bonn   Bonn, Germany
*Bachelor of Science in **Physics***   since Oct. 2022
- **German Academic Scholarship Foundation** (Elected spokesperson in Bonn for 350 scholars; organized anniversary & debate formats, established mentoring program)
- **Summer Schools & seminars (selection):**
  - Neuroscience & Machine Learning: *"Estimators, Talkers and other (Artificial) Intelligences" (Leysin, Switzerland, 2 weeks); Simulations of Human Motor Control and Therapies* (Leysin, Switzerland, 2 weeks)
  - Biology, Neuroscience & Aging: *Sustainable biotechnology to solve climate change* (Vienna, 2 weeks); *Basic on Aging Research* (Valencia, 1 week), Colloquium Neurological Research (Aachen 2023, Hamburg 2025)

National and Kapodistrian University of Athens   Athens, Greece
Incoming: Erasmus Semester in Summer 26   est. Feb. 2026 – Jul. 2026
- Incoming: Courses about "Computational Neuroscience" and "Neurobiological Basis of Diseases of the Nervous System"

Montessori-Gymnasium Cologne   Cologne, Germany
Abitur (876/900, best of year, student body president, exchanges in France and Poland)   Aug. 2013 – Jul. 2021

EXPERIENCE

University Hospital (Institute for Experimental Epileptology and Cognition Research)   Bonn, Germany
Research Assistant & B.Sc. Thesis in Computational Neuroscience by Prof. Tchumatchenko   since May. 2025
- Developing mathematical models to describe age-related changes in the brain using high-dimensional datasets
- Participated in the Bernstein-Conference with Travel-Grant by the Universitätsstiftung Bonn

Helmholtz Institute for Radiation and Nuclear Physics   Bonn, Germany
Teaching Assistant (Tutor)   Apr. 2024 – Mar. 2025
- Designed and implemented an innovative feedback system for tutorials, increasing participation by over 50%

Rockview (strategy consulting)   Hamburg, Germany
Internship (part of B.Sc. program, grade: 1.0)   Feb. 2025 – Apr. 2025
- Developed an AI-based search method for corporate databases (LLMs)

Germanwatch e.V. (Climate-/ and Development-NGO)   Bonn, Germany
Voluntary Social Year in Political Life   Aug. 2021 – Mar. 2022

LEADERSHIP

Young European Symposium (Platform for Young Innovators and Change-Makers)   Berlin, Germany
Key Organizing Team   since Sep. 2024
- Fundraised > 15,000€ and recruited 100+ international participants for a new conference format

German American Conference at Harvard (largest student-led conference in the US)   Cambridge, USA
Digital Logistics & Event Organizer   Mar. 2023 – Mar. 2024
- Organized a panel on space exploration with NASA astronaut Jeffrey Hoffman

SKILLS

Technical & Analytical: Python (NumPy, Pandas, Matplotlib), C, Git, HTML/CSS, LaTeX; statistical analysis, data visualization, computational neuroscience (neural modeling)
Languages: German (native), English (TOEFL 109/120), French (DELF B2)